Introduction

This test plan outlines the strategy for automating the process of searching for "Office chairs" on the Amazon web portal, selecting the highest-rated chair, adding it to the cart, and verifying that the correct product has been added.

Test Items

Application: Amazon web application

URL: https://www.amazon.com/

Functionality: Product search, sorting, adding to cart, and cart verification

Features to be Tested

- Verify that the search functionality for "Office chairs" works correctly.
- Ensure the highest-rated chair is correctly identified and selected.
- Confirm that the selected product is successfully added to the cart.
- Verify that the correct product appears in the cart.

Test Plan

1. *Tools and Technologies*

- **Programming Language:** Java
- **Automation Tool/Libraries:** Selenium WebDriver, TestNG, Maven
- **IDE:** IntelliJ IDEA
- **Version Control:** Git with GitHub
- **CI/CD:** GitHub Actions
- **Reporting:** Extent Reports

2. *Test Environment*

- **Browser**: Google Chrome or FireFox
- **OS**: Windows or macOS or Linux
- **Internet connection**: Stable

3. *Test Cases*

<u>Test Case 1</u>: **Search for Office Chairs**

- ***Description*:** Verify that the search functionality works correctly.
- ***Steps*:**
    1. Open Amazon.com.
    2. Enter "Office chairs" in the search bar.
    3. Click the search button.
- ***Expected Result*:** Search results for "Office chairs" are displayed.

<u>Test Case 2</u>: **Select the Highest-Rated Chair**

- ***Description*:** Verify that the highest-rated chair is correctly identified and selected.
- ***Steps*:**
    1. From the search results, identify the chair with the highest rating (Rating / Number of reviews).
    2. Click on the product link.
- ***Expected Result*:** The product page of the highest-rated chair is opened.

<u>Test Case 3</u>: **Add Product to Cart**

- ***Description*:** Verify that the selected product is successfully added to the cart.
- ***Steps*:**
    1. On the product page, click the "Add to Cart" button.
    2. Confirm that the product is added to the cart.
- ***Expected Result*:** The product is added to the cart.

<u>Test Case 4</u>: **Verify Product in Cart**

- ***Description*:** Confirm that the correct product appears in the cart.
- ***Steps*:**
    1. Click on "Go to cart".
    2. Verify the product details in the cart.
- ***Expected Result*:** The product details in the cart match the selected product.